

REMARKS/ARGUMENTS

In amended FIG. 5, cross-hatching representative of corrugation has been added.

In amended FIG. 13, the dashed lines have been made solid, and in new FIG. 15, the old FIG. 13 has been modified and redrawn without the dashed lines.

The specification has been modified slightly to include a reference to the new FIG. 15.

Claims 1-15, 20-35, 37-39, and 41 have been canceled.

Claim 16 has been amended for clarification purposes. Claim 36 has been rewritten in independent form to include the recitations of cancelled claims 34 and 35, claim 40 has been rewritten in independent form to include the recitations of claim 34, and claims 42 and 44 have been amended to update their dependencies to claim 40.

Claims 16-19, 36, 40, and 42-44 remain in this application.

Election/Restrictions

In response to the restriction requirement, Applicant affirms the election of Group II, claims 16-19 and 34-44, drawn to a product, for examination on the merits.

Drawing Objections, Specification Objections, and 35 USC 112, first paragraph rejections

The Office action's first identified ground for the objections and rejections is that that the drawings must show that insulation 244 comprises corrugated material as recited in claim 18. Although Applicant believes the drawings to be properly submitted as filed, Applicant is submitting an amended FIG. 5 herewith to show cross-hatching to insulation 244 representative of corrugation. Support in the specification for claim 18 the amendment to the drawings can be found in paragraph 27, for example.

The Office action's second identified ground for the objections and rejections is an allegation that the discrete teeth and tooth connectors are not shown in the drawings or described in the Specification. Applicant asserts that these features are shown as elements 619 and 617 in FIG. 13 and described in paragraph 37. Although Applicant believes the drawings to be properly submitted as filed, to remove any ambiguity, Applicant is submitting herewith an amended FIG. 13 that changes the dashed lines to solid lines and a new FIG. 13 which is identical to the old FIG. 15 except for the removal of the dashed lines. The dashed lines had previously been used to indicate that FIG. 13 was representing two alternative embodiments of paragraph 37.

Therefore, particularly in light of the present amendments, Applicant requests the drawing objections, specification objections, and USC 112, second paragraph, claim 18 and 39 rejections be removed.

Claims 16, 18, 38, and 40-44

Applicant respectfully traverses the rejection of claims 16, 18, 38, and 40-44 under 35 USC 102(b) over Rosenberry, US Patent No. 4,392,072.

Claims 38 and 41 have been cancelled.

With respect to claim 16, from which claim 18 depends, which was amended to more clearly cover the subject matter of FIGs. 2-11 (with further support being present, for example, in paragraphs 20 and 21), Applicant respectfully submits that Rosenberg does not teach or disclose the claim recitations of "a laminated stator yoke situated around the stator windings, wherein laminations forming the laminated stator yoke comprise the yoke and teeth extending therefrom" and "molded composite tooth tips between respective windings and in contact with the teeth of the laminated stator yoke." Rosenberg appears to relate to a cylindrically wound yoke with either laminated or composite teeth attached to the cylinder. The laminations of Rosenberg yoke cannot include the teeth, because of the circular winding. Further, there are no tooth tips attached to the teeth – the teeth and tips appear to be integral units.

With respect to claim 40, from which claims 42-44 depend, Rosenberg relates to a laminated stator yoke and does not teach, suggest or disclose a composite stator yoke. Further, with respect to claim 42-44, Applicant cannot find specific references in Rosenberg to grain orientation.

Accordingly, Applicant respectfully submits that claim 16, claim 18, which depends therefrom, claim 40, and claims 42-44 which depend therefrom define allowable subject matter over the Rosenberg.

Claims 34, 35, and 37

Claims 34, 35, and 37 have been cancelled.

Claim 17

Claim 17 was rejected under 35 USC 103(a) on Rosenberg and Ryder. Claim 17 depends from claim 16 which Applicant believes to be in condition for allowance over Rosenberg for the reasons discussed above regardless of whether Ryder might be interpreted to teach or suggest key notches. Accordingly, Applicant respectfully submits that claim 17 defines allowable subject matter over Rosenberg and Ryder.

Claim 19

Claim 19 was rejected under 35 USC 103(a) on Rosenberg and Bansai et al., US Patent No. 4,994,700 (hereinafter Bansai). Claim 19 depends from claim 16 which Applicant believes to be in condition for allowance over Rosenberg for the reasons discussed above regardless of whether Bansai might be interpreted to teach or suggest corrugation. Accordingly, Applicant respectfully submits that claim 19 defines allowable subject matter over Rosenberg and Bansai.

Claim 36

Applicant respectfully traverses the rejection of claim 36 under 35 USC 103(a) over Ryder and Baronosky et al., US Patent No. 5,866,965.

Ryder does not teach, suggest, or disclose a "stator winding comprises a flat wound stator winding including a wider winding portion and a narrower winding portion with the wider winding portion situated closer to the stator yoke than the narrower winding portion."

Baronosky does not overcome the above noted deficiencies of Ryder. Baronosky appears to relate to a rectangular sheet winding for a reluctance machine as can be seen most clearly by FIGs 1 and 4 with a constant width. Baronosky does not appear to be directed to filling the space between teeth (see FIG. 4, for example) and no need for a varied width is taught or suggested.

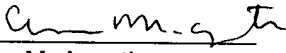
Applicant submits that one of ordinary skill in the art would not have had motivation to use the flat sheet type reluctance motor winding embodiment of Baronosky in the thread type winding induction motor embodiment of Ryder.

Summary

In view of the foregoing, Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Should the Examiner believe that anything further is needed to place the application in even better condition for allowance, the Examiner is requested to contact Applicant's undersigned representative at the telephone number below.

Respectfully submitted,

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